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APPLICATION NO.: 10/588,833

ATTY. DOCKET NO.: H0498.70217US02

FILING DATE:

August 9, 2006

CONFIRMATION NO.: 4453

APPLICANT:

Lieber, et al.

GROUP ART UNIT: 2667

EXAMINER:

Not yet assigned

U.S. PATENT DOCUMENTS

Examiner's Initials	Cite No.	U.S. Patent Document	Name of Patentee or Applicant of Cited Document	Date of Publication or of issue of Cited Document MM-DD-YYYY
		3,873,359	Lando	03-25-1975
		3,873,360	Lando	03-25-1975
•		3,900,614	Lando	08-19-1975
		4,673,474	Ogawa	06-16-1987
		4,939,556	Eguchi et al.	07-03-1990
		5,023,139	Birnboim et al.	06-11-1991
		5,089,545	Pol	02-18-1992
		5,252,835	Lieber et al.	10-12-1993
		5,274,602	Glenn	12-28-1993
		5,453,970	Rust et al.	09-26-1995
		5,475,341	Reed	12-12-1995
		5,512,131	Kumar et al.	04-20-1996
		5,524,092	Park	06-04-1996
		5,537,075	Miyazaki	07-17-1996
•		5,539,214	Lynch et al.	07-23-1996
	Ì	5,581,091	Moskovits et al.	12-03-1996
		5,589,692	Reed	12-31-1996
		5,607,876	Biegelsen et al.	03-04-1997
		5,620,850	Bamdad et al.	04-15-1997
		5,640,343	Gallagher et al.	06-17-1997
		5,726,524	Debe	03-10-1998
		5,739,057	Tiwari et al.	04-14-1998
		5,747,180	Miller et al.	05-05-1998
		5,751,156	Muller et al.	05-12-1998
		5,776,748	Singhvi, et al.	07-07-1998
		5,824,470	Baldeschwieler et al.	10-20-1998
		5,830,538	Gates et al.	11-03-1998
		5,840,435	Lieber et al.	11-24-1998
		5,847,565	Narayanan	12-08-1998
		5,858,862	Westwater et al.	01-12-1999
		5,864,823	Levitan	01-26-1999
		5,897,945	Lieber et al.	04-27-1999
		5,900,160	Whitesides, et al.	05-04-1999
		5,903,010	Flory et al.	05-11-1999
		5,908,692	Hamers et al.	06-01-1999
		5,916,642	Chang	06-29-1999
		5,942,443	Parce et al.	08-24-1999
		5,997,832	Lieber et al.	12-07-1999

FORM PTO)-1449/A and B (Modifie	4)	APPLICATION NO.:	10/588,833	ATTY. DOCKET NO.:	H0498.70217US02
FORM PTO-1449/A and B (Modified)		FILING DATE:	August 9, 2006	CONFIRMATION NO.: 4453			
	INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT:	Lieber, et al.			
Sheet 2 of 12		GROUP ART UNIT:	2667	EXAMINER:	Not yet assigned		

U.S. PATENT DOCUMENTS

	6,036,774		Lieber et al.	03-14-2000
	6,038,060		Crowley	03-14-2000
	6,060,121		Hidber, et al.	05-05-2000
	6,060,724		Flory et al.	05-09-2000
	6,069,380		Chou et al.	05-30-2000
	6,123,819		Peeters	09-26-2000
	6,128,214		Kuekes et al.	10-03-2000
	6,143,184		Martin et al.	11-07-2000
	6,149,819		Martin et al.	11-21-2000
	6,159,742		Lieber et al.	12-12-2000
	6,180,239	B1	Whitesides, et al.	01-30-2001
	6,187,165	B1	Chien et al.	02-13-2001
	6,190,634	B1	Lieber et al.	02-20-2001
	6,203,864	B1	Zhang et al.	03-20-2001
	6,207,392	B1	Weiss et al.	03-27-2001
	6,211,464		Mochizuki, et al.	04-03-2001
	6,231,744	B1	Ying et al.	05-15-2001
	6,256,767	B1	Kuekes et al.	07-03-2001
·	6,270,074	B1	Rasmussen et al.	08-07-2001
	6,278,231	B1	Iwasaki et al.	08-21-2001
	6,286,226	B1	Jin	09-11-2001
	6,287,765	B1	Cubicciotti	09-11-2001
	6,314,019	B1	Keukes et al.	11-06-2001
	6,325,904	B1	Peeters	12-04-2001
	6,340,822	B1	Brown et al.	01-22-2002
	6,346,189	B1	Dai et al.	02-12-2002
	6,355,198	B1	Kim, et al.	03-12-2002
	6,359,288	B1	Ying et al.	03-19-2002
	6,437,329	B1	Yedur et al.	08-20-2002
	6,459,095	B1	Heath et al.	10-01-2002
	6,465,132	B1	Jin	10-15-2002
	6,468,657		Hou, et al.	10-22-2002
	6,468,677		Benton, et al.	10-22-2002
	6,503,375	B1	Mayden et al.	01-07-2003
	6,528,020	B1	Dai et al.	03-04-2003
	6,538,367	B1	Choi et al.	03-25-2003
	6,559,468	B1	Kuekes et al.	05-06-2003
	6,586,095	B2	Wang et al.	07-01-2003
	6,628,053	B1	Den et al.	09-30-2003
	6,716,409	B2	Hafner et al.	04-06-2004

FORM PTO-1449/A and B (Modified)				APPLICATION NO.:	10/588,833	ATTY. DOCKET NO.: H0498.70217US02 CONFIRMATION NO.: 4453		
, ,			FILING DATE:	August 9, 2006				
1	INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT:	Lieber, et al.				
		GROUP ART UNIT:	2667	EXAMINER:	Not yet assigned			
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U.S.	PAT	ENT	DOCU	JMENTS

	6,741,019	B1	Filas et al.	05-25-2004
	6,743,408	B2	Lieber et al.	06-01-2004
	6,756,025	B2	Colbert et al.	06-29-2004
	6,756,795	B2	Hunt et al.	06-29-2004
	6,762,056	B2	Peeters	07-13-2004
,	6,781,166	B2	Lieber, et al.	08-24-2004
	6,803,840	B2	Hunt et al.	10-12-2004
	6,808,746	B1	Dai et al.	10-26-2004
	6,815,706	B2	Li et al.	11-09-2004
	6,846,565	B2	Korgel et al.	01-25-2005
	6,872,645	B2	Duan et al.	03-29-2005
	6,882,051		Majumdar et al.	04-19-2005
	6,882,767	B2	Yang et al.	04-19-2005
	6,902,720	B2	McGimpsey	06-07-2005
	6,946,197	B2	Yadav et al.	09-20-2005
	6,958,216	B2	Kelley et al.	10-25-2005
	6,962,823	B2	Empedocles et al.	11-08-2005
	6,974,706	B1	Melker et al.	12-13-2005
	6,996,147	B2	Majumdar et al.	02-07-2006
	7,048,903		Colbert, et al.	05-23-2006
	7,129,554		Lieber, et al.	10-31-2006
	7,172,953		Lieber, et al.	02-06-2007
	7,211,464	B2	Lieber, et al.	05-01-2007
	2001/0054709	A 1	Heath, et al.	12-27-2001
	2002/0013031		Chen, et al.	01-31-2002
	2002/0040805	A1	Swager	04-11-2002
	2002/0055239	Al	Tuominen et al.	05-09-2002
	2002/0084502	A1	Jang et al.	07-04-2002
	2002/0086335	A 1	Massey et al.	07-04-2002
	2002/0112814	A1	Hafner et al.	08-22-2002
	2002/0117659	A1	Lieber et al.	08-29-2002
	2002/0122766	A 1	Lieber et al.	09-05-2002
	2002/0130311	Al	Lieber, et al.	09-19-2002
	2002/0130353	A 1	Lieber et al.	09-19-2002
	2002/0146714	A 1	Lieber et al.	10-10-2002
	2002/0158342	A1	Tuominen et al.	10-31-2002
	2002/0172820	A1	Majumdar et al.	11-21-2002
	2002/0175408	A1	Majumdar et al.	11-28-2002
	2002/0179434	A1	Dai et al.	12-05-2002
	2002/0187504	A1	Reich et al.	12-12-2002

FORM PTO)-1449/A and B (Modifie	4)	APPLICATION NO.:	10/588,833	ATTY. DOCKET N	IO.: H0498.70217US02
FORM PTO-1449/A and B (Modified) INFORMATION DISCLOSURE		FILING DATE:	August 9, 2006	CONFIRMATION	NO.: 4453		
	EMENT BY			APPLICANT:	Lieber, et al.		
Sheet 4 of 12		GROUP ART UNIT:	2667	EXAMINER:	Not yet assigned		

U.S. PATENT DOCUMENTS

2003/0001091	Al	Nakayama et al.	01-02-2003
2003/0003300	Al	Korgel et al.	01-02-2003
2003/0032892	A 1	Erlach et al.	02-13-2003
2003/0048619	A1	Kaler et al.	03-13-2003
2003/0073071	A 1	Fritz et al.	04-17-2003
2003/0089899	A1	Lieber et al.	05-15-2003
2003/0098488	Al	O'Keeffe et al.	05-29-2003
2003/0113713	A1	Glezer, et al.	06-19-2003
2003/0113940	Al	Erlanger et al.	06-19-2003
2003/0121764	Al	Yang et al.	07-03-2003
2003/0124509	Al	Kenis, et al.	07-03-2003
2003/0124717	Al	Awano et al.	07-03-2003
2003/0134267	Al	Kang et al.	07-17-2003
2003/0134433	Al	Gabriel et al.	07-17-2003
2003/0135971	Al	Liberman et al.	07-24-2003
2003/0156992	Al	Anderson et al.	08-21-2003
2003/0186522	A1	Duan	10-02-2003
2003/0186544	A1	Yoshitaka, et al.	10-02-2003
2003/0189202	A1	Li et al.	10-09-2003
2003/0197456	· A1	Den et al.	10-23-2003
2003/0200521	A1	DeHon et al.	10-23-2003
2004/0005723	A1	Empedocles et al.	01-08-2004
2004/0026684	A1	Empedocles	02-12-2004
2004/0067530	A1	Gruner	04-08-2004
2004/0095658	A1	Buretea et al.	05-20-2004
2004/0106203	A1	Stasiak et al.	06-03-2004
2004/0112964	Al	Empedocles et al.	06-17-2004
2004/0113138	Al	DeHon, et al.	06-17-2004
2004/0113139	A1	DeHon, et al.	06-17-2004
2004/0118448	Al	Scher et al.	06-24-2004
2004/0136866	A1	Pontis et al.	07-15-2004
2004/0146560	A1	Whiteford et al.	07-29-2004
2004/0157414	A1	Gole et al.	08-12-2004
2004/0188721		Lieber, et al.	09-30-2004
2004/0213307	A1	Lieber, et al.	10-28-2004
2005/0037374	A1	Melker et al.	02-17-2005
2005/0064185	Al	Buretea et al.	03-24-2005
2005/0064731	A1	Park et al.	03-24-2005
2005/0066883	A1	Dubrow et al.	03-31-2005
2005/0072213	A1	Besnard et al.	04-07-2005

Receipt date: 08/03/2007 10588833 - GAU: 2813

APPLICATION NO.: 10/588,833 ATTY. DOCKET NO.: H0498.70217US02 FORM PTO-1449/A and B (Modified) FILING DATE: August 9, 2006 **CONFIRMATION NO.: 4453** INFORMATION DISCLOSURE APPLICANT: Lieber, et al. STATEMENT BY APPLICANT GROUP ART UNIT: 2667 **EXAMINER:** Not yet assigned Sheet of 12

ILS. PATENT DOCUMENTS

	2005/0079533	A1	S. PATENT DOCUMENTS Samuelson et al.	04-14-2005
	2005/0079659	Al	Duan et al.	04-14-2005
	2005/0100960	Al	Dai et al.	05-12-2005
	2005/0101026	A1	Sailor et al.	05-12-2005
	2005/0101020	A1	Whiteford et al.	05-12-2003
	2005/01109989			
		A1	Duan et al.	05-26-2005
	2005/0161662	A1	Majumdar et al.	07-28-2005
	2005/0181587	A1	Duan et al.	08-18-2005
	2005/0201149	A1	Duan et al.	09-15-2005
	2005/0202615	A1	Duan et al.	09-15-2005
	2005/0212079	A1	Stumbo et al.	09-29-2005
	2005/0214967	A1	Scher et al.	09-29-2005
	2005/0219788	A1	Chow et al.	10-06-2005
	2005/0230356	A 1	Empedocles et al.	10-20-2005
	2005/0253137	A1	Whang et al.	11-17-2005
	2005/0287717	A1	Heald et al.	12-29-2005
	2006/0008942	A1	Romano et al.	01-12-2006
	2006/0009003	A1	Romano et al.	01-12-2006
	2006/0019472	A1	Pan et al.	01-26-2006
i	2006/0054936	A1	Lieber et al.	03/16/2006
	2006/0175601	A1	Lieber et al.	08/10/2006
	2006/0237749	A1	Lieber et al.	10/26/2006
	2007/0026645	A1	Lieber et al.	02/01/2007
	2007/0032023	A1	Lieber et al.	02/08/2007
	2007/0032051	A1	Lieber et al.	02/08/2007
	2007/0032052	A1	Lieber et al.	02/08/2007
	2007/0048492	Al	Lieber et al.	03/01/2007

FOREIGN PATENT DOCUMENTS

Examiner's Cite		For	eign Patent Docun	nent	Name of Patentee or Applicant of Cited	Date of Publication of	Translation
Initials	No.	Office/ Country	Number	Kind Code	Document (not necessary)	Cited Document MM-DD-YYYY	(Y/N)
/D.W./		EP	1 087 413	A2	LUCENT TECHNOLOGIES, INC.	03-28-2001	
/D.W./		JP	2000-31462	Α	TORU ET AL.	01-26-2000	
/D.W./		JP	11-11917	A2	CANON INC.	01-19-1999	
/D.W./		wo	91/06036	Al	RESEARCH CORPORATION TECHNOLOGIES, INC.	05-02-1991	
/D.W.	/	wo	95/02709	A2	PRESIDENT & FELLOWS OF HARVARD COLLEGE	01-26-1995	
/D.W./		wo	96/29629	A2	PRESIDENT & FELLOWS OF HARVARD COLLEGE	09-26-1996	

FORM PTO)-1449/A and B (N	Modifie	4)	APPLICATION NO.:	10/588,833	ATTY. DOCKET NO.:	H0498.70217US02
FORM PTO-1449/A and B (Modified) INFORMATION DISCLOSURE			FILING DATE:	August 9, 2006	CONFIRMATION NO.: 4453		
1	EMENT BY			APPLICANT:	Lieber, et al.		
		GROUP ART UNIT:	2667	EXAMINER:	Not yet assigned		
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FOREIGN PATENT DOCUMENTS

			FURE	IGN PATENT DUCUMENTS	· · · · · · · · · · · · · · · · · · ·
/D.W./				PRESIDENT & FELLOWS OF	
, 21111,	wo	97/33737	A1	HARVARD COLLEGE	09-18-1997
(F) 384 (PRESIDENT & FELLOWS OF	
/D.W./	wo	97/34025	A1	HARVARD COLLEGE	09-18-1997
/D.W./	wo	98/39250	A1	WILLIAM MARSH RICE UNIVERSITY	09-11-1998
/D.W./	WO	98/42620	A1	JAPANESE FINE CERAMICS CENTER	10-01-1998
/EN 3 & Z /				MASSACHUSETTS INSTITUTE OF	
/D.W./	WO	98/48456	A1	TECHNOLOGY	10-29-1998
/D.W./	WO	99/63347	A2	JONES, MARK	12-09-1999
/F3 344 /	1			BOARD OF TRUSTEES OF THE	
/D.W./				LELAND STANFORD JUNIOR	1
	wo	00/09443	A1	UNIVERSITY	02-24-2000
/D.W.	wo	00/17101	A1	WILLIAM MARSH RICE UNIVERSITY	03-30-2000
/D.W./	WO	00/19494	Al	XIDEX CORPORATION	04-06-2000
/D_W_/	WO	00/51186	A2	CLAWSON	08-31-2000
, , , ,				PRESIDENT AND FELLOW OF	
				HARVARD COLLEGE	
/D.W./				(ORIGINAL AND CORRECTION	
	WO	01/03208	AI	VERSION)	01-11-2001
/D.W./				Board of Trustees of the Leland Stanford	
/ [] . \ \ /	wo	01/44796		Junior University	06-21-2001
/D.W./				REGENTS OF THE UNIVERSITY OF	
/D.VV./	wo	02/080280	A1	CALIFORNIA	10-10-2002
/D.W./	WO	02/086480	A1	STANFORD UNIVERSITY	10-31-2002
/D.W./				PRESIDENT AND FELLOWS OF	
/U.VV./	WO	02/17362	A2	HARVARD COLLEGE	02-28-2002
/D.W./	WO	02/31183	A1	BIOFORCE LABORATORY, INC.	04-18-2002
				PRESIDENT AND FELLOWS OF	
/D.W./	WO	02/48701	A2	HARVARD COLLEGE	06-20-2002
				PRESIDENT AND FELLOWS OF	
/D . W./	WO	03/005450	A2	HARVARD COLLEGE	01-16-2003
/D.W/	wo	03/016901	A1	SAMSUNG ELECTRONICS CO., LTD.	02-27-2003
(D) 14 (I)				PRESIDENT & FELLOWS OF	
/D.W/	wo	03/053851	A2	HARVARD COLLEGE	07-03-2003
/D.W./	WO	03/054931	A1	VIRTANEN, JORMA ET AL.	07-03-2003
				CALIFORNIA INSTITUTE OF	
/D.W./	WO	03/063208	A2	TECHNOLOGY	07-31-2003
/D.W./	WO	04/003535	A1	NANOSYS INC.	01-08-2004
, 5, , , , ,				PRESIDENT & FELLOWS OF	
/D.W./	wo	04/010552	A1	HARVARD COLLEGE	01-29-2004
/D.W./	WO	04/032190	A2	NANOSYS, INC.	04-15-2004
/D.W./	wo	04/032193	A2	NANOSYS, INC.	04-15-2004
	wo	04/034025	A2	NANOSYS, INC.	04-22-2004
/D.W./					

04-19-2007

Receipt date: 08/03/2007

WO

07/044034

FORM PTO	-1449/A and B	Modified	1)	APPLICATION NO.:	10/588,833	ATTY. DOCKET N	O.: H0498.70217US02	
		`		FILING DATE:	August 9, 2006	CONFIRMATION	NO.: 4453	
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				GROUP ART UNIT:	2667	EXAMINER:	Not yet assigned	
Sheet	7	of	12	GROOF ART UNIT:	2007	EXAMINER. Not yet assig		
FOREIGN PATENT DOCUMENTS								

/D.W./	WO	05/089165	A2	NANOSYS, INC.	09-29-2005			
/D.W./	wo	05/093831	Al	PRESIDENT AND FELLOWS OF HARVARD COLLEGE	10-06-2005			
/D.W.	wo	05/094440	A2	NANOSYS INC.	10-13-2005			
/D.W./	wo	05/114282	A2	THE REGENTS OF THE UNIVERSITY OF CALIFORNIA	02-01-2005			
/D.W./	wo	06/107312		President and Fellows of Harvard College	10-12-2006			
/D W /	WO	06/132659		President and Fellows of Harvard College	12-14-2006			

OTHER ART — NON PATENT LITERATURE DOCUMENTS

President and Fellows of Harvard College

Examiner's Initials	Cite No Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.				
/D.W./		AGARWAL, et al., "Lasing in Single Cadmium Sulfide Nanowire Optical Cavities," <i>Nano-Lett</i> , 5(5):917-920 (2005)			
/D.W./		CHEN, "Noncovalent functionalization of carbon nanotubes for highly specific electronic biosensors," <i>PNAS</i> , 100(9):4984-4989 (2003)			
/D.W./		CHEN, J., et al., "Large On-Off Ratios and Negative Differential Resistance in a Molecular Electronic Device," <i>Science</i> , 286: 1550-51 (1999)			
/D.W./		CHEUNG, C.L., et al., "Diameter Controlled Synthesis of Carbon Nanotubes," J. Phys. Chem B, 106, (2002), pp. 2429-2433.			
/D.W./		CHOI, "Enhancement of Ferroelectricity in Strained BaTiO ₃ Thin Films," Science, 306:1005-1009 (2004)			
/D.W./		CHUNG, et al., "Silicon nanowire devices", Appl Phys Lett, 76(15): 2068-2070 (2000)			
/D.W./		COLLIER, C.P., et al., "Electronically Configurable Molecular-Based Logic Gates", SCIENCE, vol. 285, July 16, 1999, pp. 391-394;			
/D.W.	/	CUI ET AL., "Nanowire nanosensors for highly sensitive and selective detection of biological and chemical species", <i>Science</i> , August 17, 2001, vol. 293, pp. 1289-1292			
/D.W.	<i>i</i>	CUI, Yi, et al. "Doping and Electrical Transport in Silicon Nanowires", <i>The Journal of Physical Chemistry</i> , Vol. 104, No. 22, June 8, 2000, pp. 5213-5216;			
/D.W./		CUI, Yi, et al., "Diameter-controlled synthesis of single-crystal silicon nanowires", Applied Physics Letters, Vol. 78, No. 15, April 9, 2001, pp. 2214-2216.			
/D.W./	,	CUI, Yu, et al., "Functional Nanoscale Electronic Devices Assembled Using Silicon Nanowire Building Blocks", SCIENCE, Vol. 291, February 2, 2001, pp. 851-853;			
/D.W.	/	DUAN, "Synthesis and optical properties of gallium arsenide nanowires," Apl Phys Lett, 76(9):1116-1118 (2000)			
/D.W./		DUAN, X., et al., "High-performance thin-film transistors using semiconductor nanowires and nanoribbons", <i>Nature</i> , 425: 274-278 (2003)			
/D.W.	/	DUAN, X., et al., "Nonvolatile Memory and Programmable Logic from Molecule-Gated Nanowires," <i>Nano Letters</i> , 2 (5), (2002), pp. 487-490.			
/D.W./		DUAN, X., et al., "Single-nanowire electrically driven lasers," Nature, 421, (2003), pp. 241-245			
/D.W./		DUAN, Xiangfeng, et al., "General Synthesis of Compound Semiconductor Nanowires", Adv. Materials. 2000, 12, No. 4, pp. 298-302, published on Web 02/17/2000;			
/D.W./		DUAN, Xiangfeng, et al., "Indium phosphide nanowires as building blocks for nanoscale electronic and optoelectronic devices", <i>Nature</i> , Vol. 409, January 4, 2001, pp. 66-69;			
/D.W./		DUAN, Xiangfeng, et al., "Laser-Assisted Catalytic Growth of Single Crystal GaN Nanowires", J. Am. Chem. Soc. 2000, 122, October 18, 1999, pp. 188-189; published on Web 12/18/99			

FORM PTO)-1449/A and B (N	/odifie	q)	APPLICATION NO.:	10/588,833	ATTY. DOCKET NO.:	H0498.70217US02
	RMATION I		•	FILING DATE:	August 9, 2006	CONFIRMATION NO.:	4453
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Sheet	8	of	12	GROUP ART UNIT:	2667	EXAMINER:	Not yet assigned

	OTHER ART — NON PATENT LITERATURE DOCUMENTS	
/D.W./	ESFARJANI, K., et al., "Electronic and transport properties of N-P doped nanotubes", Appl Phy Lett, 74(1): 79-81 (1999)	
	FRIEDMAN, "High-speed integrated nanowire circuits," Nature, 434:1085 (2005)	
/D.W./	GIVARGIZOV, E.I., et al., "Fundamental Aspects of VLS Growth," J. Crystal Growth, 31, (1975), pp: 20-30	
/D.W./	GRADECAK, "GaN nanowire lasers with low lasing thresholds," Apl Phys Lett, (87):173111-173111-3 (2005)	
/D.W./	GUDIKSEN ET AL., "Growth of nanowire superlattice structures for nanoscale photonics and electronics", <i>Nature</i> , 2002, vol. 415, pp. 617-620	
/D.W./	GUDIKSEN, M.S., et al., "Size-Dependent Photoluminescence from Single Indium Phosphide Nanowires," J. Phys. Chem. B, 106, (2002), pp. 4036-4039	
/D.W./	GUDIKSEN, M.S., et al., "Synthetic Control of the Diameter and Length of Single Crystal Semiconductor Nanowires," <i>J. Phys. Chem. B</i> , 105 , (2001), pp. 4062-4064.	
/D.W./	GUDIKSEN, Mark S., et al. "Diameter-Selective Synthesis of Semiconductor Nanowires", J. Am. Chem. Soc. 2000, 122, June 6, 2000, pp. 8801-8802;	
/D.W./	GUO, et al., "Nanoscale Silicon Field Effect Transistors Fabricated Using Imprint Lithography," Appl Phys Lett, 71(13):1881-1883; (1997)	
/D.W./	GUO, L., et al., "A Silicon Single-Electron Transistor Memory Operating at Room Temperature," Science, 275: 649-651 (1997)	
/D.W./	HAHM, "Direct Ultrasensitive Electrical Detection of DNA and DNA Sequence Variations Using nanowire Nanosensors," Nano-Lett, 4(1):51-54 (2003)	
/D.W./	HARAGUCHI ET AL, "Polarization dependence of light emitted from GaAs p-n junctions in quantum wire crystals", Journal of Applied Physics, April 1994, vol. 75, no. 8, pp. 4220-4225	
/D.W./	HARAGUCHI, et al., "GaAs p-n junction formed in quantum wire crystals", Appl Phys Lett, 60: 745-747 (1992)	
/D.W./	HEATH, "A liquid solution synthesis of single crystal germanium quantum wires," Chem Phys Lett, 208(3,4):263-265 (1993)	
/D.W.	HIRUMA, "GaAs free-standing quantum-size wires," J Apl Phys, 74(5):3162-3171 (1993)	
/D.W./	HIRUMA, K., et al., "Self-organized growth of GaAs/InAs heterostructure nanocylinders by organometallic vapor phase epitaxy," J. Crystal Growth, 163, (1996), pp. 226-231	
/D.W./	HOLMES, et al., Control of Thickness and Orientation of Solution-Grown Silicon Nanowires, Science, 287, (2000), pp. 1471-1473	
/D.W./	Hsu, S.T., et al. "Mfmox Ferroelectric Memory Transistor," Non-Volatile Memory Technology Symposium, Orlando, Fl, Nov. 15-17, 2004, p. 24-27	
/D.W./	HU, J "Serpentine Superlattice nanowire-Array Lasers," Quant Elec, 31(8):1380-1388 (1995)	
/D.W./	HU, J., et al., "Chemistry and Physics in One Dimension: Synthesis and Properties of Nanowires and Nanotubes," Acc. Chem. Res., 32, (1999), pp. 435-445.	
/D.W./	HU, J., et al., "Controlled growth and electrical properties of heterojunctions of carbon nanotubes and silicon nanowires," <i>Nature</i> , 399, (1999), pp. 48-51.	
/D.W./	HU, SY., "Serpentine Superlattice Nanowire-Array Lasers, "J. Quant. Electron., 31(8), (1995), pp. 1380-1388	
/D.W./	HUANG, et al., "Logic Gates and Computation from Assembled Nanowire Building Blocks", Science, 294: 1313-1317 (2001)	
/D.W./	HUANG, M., et al., "Room-Temperature Ultraviolet Nanowire Nanolasers," Science, 292, (2001), pp. 1897-1898	
/D.W./	HUANG, Y., et al., "Gallium Nitride Nanowire Nanodevices," Nano Letters, 2(2), (2002), pp. 101-104.	

FORM PTO-1	1440/A and B (M	odified	`	APPLICATION NO.:	10/588,833	ATTY. DOCKET NO.:	H0498.70217US02
FORM PTO-1449/A and B (Modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT				FILING DATE:	August 9, 2006	CONFIRMATION NO.:	4453
				APPLICANT:	Lieber, et al.		
Sheet		of	12	GROUP ART UNIT:	2667	EXAMINER:	Not yet assigned

	OTHER ART — NON PATENT LITERATURE DOCUMENTS	
/D.W./	Huang, Yu, et al., "Directed Assembly of One-dimensional Nanostructures into Functional Networks", SCIENCE, Vol. 291, January 26, 2001, pp. 630-633;	
, 2017(1)	"IBM prostoc highest performing nanotube transistors", IBM News, 2002	$+\!-$
/F> 3.8.7. /		
/D.W./	JAVEY, A., "Ballistic Carbon Nanotube Field-Effect Transistors, <i>Nature</i> , 424:654-657 (2003) [S:]	-
/D.W./	JIN, "Scalable Interconnection and Integration of Nanowire Devices without Registration," Nano-Lett, 4(5):915-919 (2004)	
/D.W./	JOHNSON, J.C., et al., "Single gallium nitride nanowire lasers," <i>Nature Materials</i> , 1, (2002), pp. 106-110	
/D.W./	JOHNSON, J.C., et al., "Single Nanowire Lasers," J. Phys. Chem., 105(46), (2001), pp. 11387-11390	1
/D.W./	JOSELEVICH, E., et al., "Vectorial Growth of Metallic and Semiconducting Single-Wall Carbon Nanotubes," <i>Nano Letters</i> , 2 (10), (2002), pp. 1137-1141.	
/D.W./	KANJANACHUCHAI ET AL., "Coulomb blockade in strained-Si nanowires on leaky virtual substrates", Semiconductor Science and Technology, 2001, vol. 16, pp. 72-76	T
/D.W./	KONG ET AL. "Nanotube molecular wires as chemical sensors", <i>Science</i> , January 28, 2000, vol. 287, pp. 622-625	
/D.W./	KONG, J., et al., "Chemical vapor deposition of methane for single-walled carbon nanotubes," <i>Chem. Physics Letters</i> , 292 , (1998), pp: 567-574	
/D.W./	KONG, J., et al., "Synthesis of individual single-walled carbon natubes on patterned silicon wafers," <i>Nature</i> , 395, (1998), pp: 878-881	
/D.W./	LAHOUN ET AL., "Epitaxial core-shell and core-multishell nanowire heterostructures", <i>Nature</i> , 2002, vol. 420, pp. 57-61	
7/D.W./	LAHOUN, L.J. et al., "Semiconductor nanowire heterostructures," 2004, Phil. Trans. R. Soc. Lond., 362: 1247-1260 (2004)	
/D.W.	LAW, "Nanoribbon Waveguides for Subwavelength Photonics Integration," Science, 305(27):1269-1273 (2004)	1
/D.W./	LEFF, "Thermodynamic Control of Gold Nanocrystal Size: Experiment and Theory," <i>J Phys Chem</i> , 99:7036-7041 (1995)	
/D.W./	LEI, "Nanowire transistors with ferroelectric gate dielectrics: Enhanced performance and memory effects," <i>Apl Phys Lett</i> , 84(22):4553-4555 (2004)	
/D.W./	LIEBER, "Nanoscale Science and Technology: Building a Big Future from Small Things," MRS Bull, www.mrs.org/publications/bulletin (2003)	
/D.W.	LIEBER, "Nanowire Superlattices," Nanoletters, 2(2):81-82 (2002)	
/D.W.	LU, W. et al., "One-dimensional hole gas in germanium/silicon nanowire heterostructures," PNAS, 102: 10046-10051 (2005)	
/D.W./	MARTEL, R., et al., "Single- and multi-wall carbon nanotube field-effect transistors," Apl Phys Lett, 73(17), (1998), pp.:2447-2449	
/D.W./	MCALPINE, "High-Performance Nanowire Electronics and Photonics and Nanoscale Patterning on Flexible Plastic Substrates," <i>Proc IEEE</i> , 93(7):1357-1363 (2005)	
/D.W./	MCALPINE, M. "High-Performance Nanowire Electronics and Photonics on Glass and Plastic Substrates", <i>Nano Letters</i> , 3(11): 1531-1535 (2003)	
/D.W/	MCALPINE, M., "Nanoimprint Lithography for Hybrid Plastic Electronics", Nano-Letters, 3(4): 443-445 (2003)	
/D.W./	MENON, "Fabrication and Evaluation of Nanoelectrode Ensembles," Anal Chem, 67(13):1920-1928 (1995)	
/D.W./	MIZUTANI, T., "Fabrication and Characterization of Carbon Nanotube FETs," Quantum Sensing and Nanophotonic Devices II, M. Flazeghi, G.J. Brown, Ed., Proc SPIE, Vol. 5732, p. 28-36	1
/D.W./	MORALES, et al., "A Laser Ablation Method for the Synthesis of Crystalline Semiconductor Nanowires", Science, 279: 208-211 (1998)	T
1077 1	ALL DEFEDENCES CONSIDERED EXCEPT WHERE LINED THROUGH	1

Receipt date: 08/03/2007 10588833 - GAU: 2813

FORM P	PTO-1449/A and B	(Modi	fied)	APPLICATION NO.:	10/588,833	ATTY. DOCKET NO.:	H0498.70217US02	
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				GROUP ART UNIT:	2667	EVAMBLED.	Not vet essioned	
Sheet	10	of	12	GROUP ART UNIT:	2007	EXAMINER:	Not yet assigned	

ī	OTHER ART — NON PATENT LITERATURE DOCUMENTS	
/D.W./	MUSIN, R. N., "Structural and Electronic Properties of Epitaxial Core-Shell Nanowire Heterostructures," <i>Phys. Rev. B</i> , 71:155318	
/D.W./	NOSHO, Y., "n-type Carbon Nanotube Field-Effect Transistors Fabricated by Using Ca Contact Electrodes," Appl. Phys. Lett., 86:73105	
/D.W./	PADESTE, et al., "Modular amperometric immunosensor devices", 1995, 8 th International Conference on Solid-State Sensors an Actuators and Eurosensors IX, 357(C7): 487-490 (1995)	
/D.W./	PATOLSKY, "Electrical detection of single viruses," PNAS, 101(39):14017-14022 (2004)	
/D.W./	PATOLSKY, "Nanowire nanosensors," <i>Mat Today</i> , 1369(7021): 20-28 (2005)	
/D.W./	PAVESI, "Optical gain in silicon nanocrystals," Nature, 408:440-444 (2000)	
/D.W./	QI, "Toward Large Arrays of Multiplex Functionalized Carbon Nanotube Sensors for Highly Sensitive and Selective Molecular Detection," <i>Nano-Lett</i> , 3(3):347-351 (2003)	
/D.W./	RUECKES, T., et al., "Carbon Nanotube-Based Nonvolatile Random Access Memory for Molecular Computing," <i>Science</i> , 298 , (2000), pp. 94-97.	
/D.W./	STAR ET AL., "Preparation and properties of polymer-wrapped single-walled carbon nanotubes", Angew. Chem. Int., 2001, vol. 40, no. 9, pp. 1721-25	
/D.W./	TAKAYAMA, S., et al., "Patterning cells and their environments using multiple laminar fluid flows in capillary networks", <i>Proc. Natl. Acad. Sci.</i> , 96: 5545-5548 (1999)	
/D.W./	TANS, et al., "Room-temperature transistor based on a single carbon nanotube", <i>Nature</i> , 393: 49-52 (1998)	
/D.W./	THESS, A., et al., "Cyrstalline Ropes of Metallic Carbon Nanotubes," Science, 273, (1996), pp:483-487	
/D.W./	TIEFENAUER, et al., "Towards Amperometric Immunosensor Devices" <i>Biosensors and Bioelectronics</i> , 12(3): 213-223 (1997)	
/D.W./	TONG, "Subwavelength-diameter silica wires for low-loss optical wave guiding," <i>Nature</i> , 426(18):816-819 (2003)	
/D.W./	URBAN, "Single-Crystalling Barium Titanate Nanowires," Adv Mat, 15(5):423-426 (2003)	
/D.W./	VOSSMEYER, T. et al., "Combinatorial approaches toward patterning nanocrystals," Journal of Applied Physics, 1998, 84(7):3664-3670	
/D.W./	WANG ET AL., "Highly polarized photoluminescence and photodetection from single indium phosphide nanowires", <i>Science</i> , 2001, vol. 293, pp. 1455-1457	
/D.W./	WANG, "Label-free detection of small-molecule-protein interactions by using nanowire nanosensors," <i>PNAS</i> , 102(9):3208-3212 (2005)	
/D.W./	WANG, N., et al., "SiO ₂ -enhanced synthesis of Si nanowires by laser ablation," <i>App. Physics Letters</i> , 73(26), (1998), pp: 3902-3904	
/D.W./	WEI, Q., et al., "Synthesis of Single Crystal Bismuth-Telluride and Lead-Telluride Nanowires for New Thermoelectric Materials," <i>Mat. Res. Soc. Symp. Proc.</i> , 581 , (2000), pp. 219-223.	
/D.W./	WHANG, "Large-Scale Hierarchical Organization of Nanowire Arrays for Integrated Nanosystems," Nano-Lett, 3(9):1255-1259 (2003)	
/D.W./	WHANG, "Nanolithographys Using Hierarchically Assembled Nanowire Masks," Nano-Lett, 3(7):951-954 (2003)	
/D.W./	WOLF, et al., "Silicon Processing For the VLSI ERA", Lattice Press, 1:12-13 (2000)	
/D.W./	WONG, S., et al., "Covalently funtionalized nanotubes as nanometre-sized probes in chemistry and biology," <i>Nature</i> , 394 , (1998), pp: 52-55	
/D.W./	WU ET AL., "Block-by-block growth of single-crystalline Si/SiGe superlattice nanowires", web release date, January 19, 2002, http://pubs.acs.org/hotartcl/nalefd/2002/nl0156888_rev.html	
/D.W./	WU, "Controlled Growth and Structures of Molecular-Scale Silicon Nanowires," Nano-Lett, 4(3):433-436 (2004)	3. (F
211077-1	ALC REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH	an. /L

FORM P	TO-1449/A and B	Modi	fied)	APPLICATION NO.:	10/588,833	ATTY. DOCKET NO.:	H0498.70217US02	
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				APPLICANT:	Lieber, et al.			
Sheet	11	of	12	GROUP ART UNIT:	2667	EXAMINER:	Not yet assigned	

W.U., "Single-crystal metallic nanowires and metal/semiconductor nanowire heterostructures," Nature, 430:61-65 (2004)		OTHER ART — NON PATENT LITERATURE DOCUMENTS	
Hall-1489-493 (2006) VAMADA, Y., "Analysis of submicron carbon nanotube field-effect transistors", Appl Phys Lett, 76: (5): 628-630 (2000). VANGA, Y., "Analysis of submicron carbon nanotube field-effect transistors", Appl Phys Lett, 76: (5): 628-630 (2000). YANG, "Wires on water," Nature, 425:243-244 (2003) YANG, P. et al., "Controlled Growth of ZaO Nanowires and Their Optical Properties," Adv. Funct. Matter, 12(5). (2002), pp. 323-331 YU., et al., "Nanoscale silicon wires synthesized using simple physical evaporation", Appl Phys Lett, 72 (26): 3458-3460 (1998). YU., w. S., et al., "Ferroelectric Properties of Individual Barium Titanate Nanowires Investigated by Scanned Probe microscopy," Nano Letters, Vol. 2, No. 5, p. 447-450 (2002) ZHENG, "Nultiplexed electrical detection of cancer markers with nanowire sensor arrays," Nature Biotech, 32(10):1294-1301 (2005) ZHENG, "Synthesis and Fabrication of High-Performance n-Type Silicon Nanowire Transistors," Adv. Mat., 16(21):130-1430 (2005) ZHENG, "Synthesis and Fabrication of High-Performance n-Type Silicon Nanowires," Nano-Lett, 5(6):1143-1146 (2005) ZHONG, "Synthesis of p-Type Gallium Nitride Nanowires for Integrated Nanosystems," Science, 302:1377-1379 (2003) ZHONG, "Synthesis of p-Type Gallium Nitride Nanowires for Electronic and Photonic Nanodevices," Nano-Lett, 3(3):343-346 (2003) ZHONG, "Synthesis of p-Type Gallium Nitride Nanowires for Electronic and Photonic Nanodevices," Nano-Lett, 3(3):343-346 (2003) ZHONG, "Synthesis of p-Type Gallium Nitride Nanowires for Electronic and Photonic Nanodevices," Nano-Lett, 3(3):343-346 (2003) ZHONG, "Synthesis of p-Type Gallium Nitride Nanowires for Electronic and Photonic Nanodevices," Nano-Lett, 3(3):343-346 (2003) ZHONG, "Synthesis of p-Type Gallium Nitride Nanowires for Electronic and Photonic Nanodevices," Nano-Lett, 3(3):343-346 (2003) ZHONG, "Synthesis of p-Type Gallium Nitride Nanowires for Electronic and Photonic Nanodevices," Nano-Lett, 3(3):343-346 (2003) ZHONG, "Synthesis of	/D.W./		
YAMADA, Y., "Analysis of submicron carbon nanotube field-effect transistors", Appl Phys Lett, 76: (5): 628-630 (2000). YANG, "Wires on water," Nature, 425:243-244 (2003) YANG, P. et al., "Controlled Growth of ZnO Nanowires and Their Optical Properties," Adv. Funct. Matter, 12(5), (2002), pp. 323-331 YU, et al., "Nanoscale silicon wires synthesized using simple physical evaporation", Appl Phys Lett, 72 (26): 3485-3460 (1998). YUN, W.S., et al., "Ferroelectric Properties of Individual Barium Titanate Nanowires Investigated by Scanned Probe microscopy," Nano Letters, Vol. 2, No. 5, p. 447-450 (2002) ZHENG, "Multiplexed electrical detection of cancer markers with nanowire sensor arrays," Nature Biotech, 23(10):1294-1301 (2005) ZHENG, "Synthesis and Fabrication of High-Performance n-Type Silicon Nanowire Transistors," Adv. Matt. 16(21):1890-1893 (2004) ZHENG, "Coberent Single Charge Transport in Molecular-Scale Silicon Nanowires," Nano-Lett, 5(6):1143-1146 (2005) ZHONG, "Synthesis of p-Type Gallium Nitride Nanowires for Electronic and Photonic Nanodevices," Nano-Lett, 3(3):343-346 (2003) ZHONG, "Synthesis of p-Type Gallium Nitride Nanowires for Electronic and Photonic Nanodevices," Nano-Lett, 3(3):343-346 (2003) ZHONG, "Synthesis of p-Type Gallium Nitride Nanowires for Si nanowires synthesized by laser ablation," J. of Crystal Growth, 197, (1999), pp. 129-135 International Preliminary Exam. Report from Int. Apl. No. PCT/US01/48230, filed December 11, 2001 DW/ International Search Report from Int. Apl. No. PCT/US03/220974, filed June 15, 2005 JD.W/ International Search Report from Int. Apl. No. PCT/US03/220974, filed June 15, 2005 JD.W/ International Search Report from Int. Apl. No. PCT/US03/220974, filed June 15, 2005 JD.W/ International Search Report from Int. Apl. No. PCT/US03/220974, filed July 28, 2005 JD.W/ International Search Report from Int. Apl. No. PCT/US03/220974, filed July 28, 2005 JD.W/ International Search Report from Int. Apl. No. PCT/US03/220974, filed July 28, 2005 JD.W/ Office Actio	/D.W./		
YANG, "Wires on water," Nature, 425:243-244 (2003) YANG, P. et al., "Controlled Growth of ZnO Nanowires and Their Optical Properties," Adv. Funct. Matter, 12(5), (2002), pp. 323-331 YU, et al., "Nanoscale silicon wires synthesized using simple physical evaporation", Appl Phys Lett, 72 (26): 3458-3460 (1998). YUN, W.S., et al., "Ferroelectric Properties of Individual Barium Titanate Nanowires Investigated by Scanned Probe microscopy," Nano Letters, Vol. 2, No. 5, p. 447-450 (2002) ZHENG, "Multiplexed electrical detection of cancer markers with nanowire sensor arrays," Nature Biotech, 23(10):1294-1301 (2005) JUW			
Matter, 12(5), (2002), pp. 323-331	,	YANG, "Wires on water," <i>Nature</i> , 425:243-244 (2003)	
YU, et al., "Nanoscale silicon wires synthesized using simple physical evaporation", Appl Phys Lett, 72 (26): 3458-3460 (1998). YUN, W.S., et al., "Ferroelectric Properties of Individual Barium Titanate Nanowires Investigated by Scanned Probe microscopy," Nano Letters, Vol. 2, No. 5, p. 447-450 (2002) ZHENG, "Multiplexed electrical detection of cancer markers with nanowire sensor arrays," Nature Biotech, 23(10): 1294-1301 (2005) ZHENG, "Synthesis and Fabrication of High-Performance n-Type Silicon Nanowire Transistors," Adv Matt, 16(21): 1890-1893 (2004) Amt. 16(21): 1890-1893 (2004) ZHONG, "Coherent Single Charge Transport in Molecular-Scale Silicon Nanowires," Nano-Lett, 5(6): 1143-1146 (2005) ZHONG, "Synthesis of p-Type Gallium Nitride Nanowires for Electronic and Photonic Nanodevices," Nano-Lett, 3(3): 343-346 (2003) ZHONG, "Synthesis of p-Type Gallium Nitride Nanowires for Electronic and Photonic Nanodevices," Nano-Lett, 3(3): 343-346 (2003) ZHOU, G., et al., "Growth morphology and micro-structural aspects of Si nanowires synthesized by laser ablation," J of Crystal Growth, 197. (1999), pp: 129-135 International Preliminary Exam. Report from Int. Apl. No. PCT/US01/48230, filed December 11, 2001 D.W.	İ		
YUN, W.S., et al., "Ferroelectric Properties of Individual Barium Titanate Nanowires Investigated by Scanned Probe microscopy," Nano Letters, Vol. 2, No. 5, p. 447-450 (2002) ZHENG, "Multiplexed electrical detection of cancer markers with nanowire sensor arrays," Nature Biotech, 23(10):1294-1301 (2005) ZHENG, "Synthesis and Fabrication of High-Performance n-Type Silicon Nanowire Transistors," Adv. Matt, 16(21):1890-1893 (2004) ZHENG, "Synthesis and Fabrication of High-Performance n-Type Silicon Nanowire Transistors," Adv. Matt, 16(21):1890-1893 (2004) ZHONG, "Coherent Single Charge Transport in Molecular-Scale Silicon Nanowires," Nano-Lett, 5(6):1143-1146 (2005) ZHONG, "Nanowire Crossbar Arrays as Address Decoders for Integrated Nanosystems," Science, 302:1377-1379 (2003) ZHONG, "Synthesis of p-Type Gallium Nitride Nanowires for Electronic and Photonic Nanodevices," Nano-Lett, 3(3):343-346 (2003) D.W.		YU, et al., "Nanoscale silicon wires synthesized using simple physical evaporation", Appl Phys Lett, 72	
ZHENG, "Multiplexed electrical detection of cancer markers with nanowire sensor arrays," Nature Biotech, 23(10):1294-1301 (2005)	/D.W.	YUN, W.S., et al., "Ferroelectric Properties of Individual Barium Titanate Nanowires Investigated by	
ZHENG, "Synthesis and Fabrication of High-Performance n-Type Silicon Nanowire Transistors," Adv Matt, 16(21):1890-1893 (2004) ZHONG, "Coherent Single Charge Transport in Molecular-Scale Silicon Nanowires," Nano-Lett, 5(6):1143-1146 (2005) ZHONG, "Nanowire Crossbar Arrays as Address Decoders for Integrated Nanosystems," Science, 302:1377-1379 (2003) ZHONG, "Synthesis of p-Type Gallium Nitride Nanowires for Electronic and Photonic Nanodevices," Nano-Lett, 3(3):343-346 (2003) ZHONG, "Synthesis of p-Type Gallium Nitride Nanowires for Electronic and Photonic Nanodevices," Nano-Lett, 3(3):343-346 (2003) ZHOU, G., et al., "Growth morphology and micro-structural aspects of Si nanowires synthesized by laser ablation," J. of Crystal Growth, 197, (1999), pp: 129-135 International Preliminary Exam. Report from Int. Apl. No. PCT/US01/48230, filed December 11, 2001 International Preliminary Exam. Report from Int. Apl. No. PCT/US005/020974, filed June 15, 2005 D.W./		ZHENG, "Multiplexed electrical detection of cancer markers with nanowire sensor arrays," Nature	
ZHONG, "Coherent Single Charge Transport in Molecular-Scale Silicon Nanowires," Nano-Lett, 5(6):1143-1146 (2005) JO.W.		ZHENG, "Synthesis and Fabrication of High-Performance n-Type Silicon Nanowire Transistors," Adv	
/D.W. 302:1377-1379 (2003) /D.W. ZHONG, "Synthesis of p-Type Gallium Nitride Nanowires for Electronic and Photonic Nanodevices," Nano-Lett, 3(3):343-346 (2003) ZHOU, G., et al., "Growth morphology and micro-structural aspects of Si nanowires synthesized by laser ablation," J. of Crystal Growth, 197, (1999), pp. 129-135 International Preliminary Exam. Report from Int. Apl. No. PCT/US001/48230, filed December 11, 2001 International Preliminary Exam. Report from Int. Apl. No. PCT/US2005/020974, filed June 15, 2005 /D.W./ International Search Report from Int. Apl. No. PCT/US01/48230, filed December 11, 2001 /D.W./ International Search Report from Int. Apl. No. PCT/US03/22061, filed July 16, 2003 /D.W./ International Search Report from Int. Apl. No. PCT/US03/22061, filed July 16, 2003 /D.W./ International Search Report from Int. Apl. No. PCT/US03/22061, filed July 12, 2003 /D.W./ International Search Report from Int. Apl. No. PCT/US03/220753, filed July 21, 2003 /D.W./ International Search Report from Int. Apl. No. PCT/US2005/004459, filed February 14, 2005 /D.W./ International Search Report from Int. Apl. No. PCT/US2005/020974, filed July 28, 2005 /D.W./ International Search Report from Int. Apl. No. PCT/US2005/020974, filed July 28, 2005 /D.W./ International Search Report from Int. Apl. No. PCT/US2005/034345, filed November 21, 2005 /D.W./ International Search Report from Int. Apl. No. PCT/US2005/034345, filed November 21, 2005 /D.W./ Office Action mailed 01/03/2005 in U.S. Patent Application No. 10/196,337, filed July 16, 2002 /D.W./ Office Action mailed 03/11/2005 in U.S. Patent Application No. 10/196,337, filed July 16, 2002 /D.W./ Office Action mailed 03/11/2005 in U.S. Patent Application No. 10/196,337, filed December 11, 2001 /D.W./ Office Action mailed 03/11/2005 in U.S. Patent Application No. 10/196,337, filed December 11, 2001 /D.W./ Office Action mailed 03/11/2005 in U.S. Patent Application No. 10/196,337, filed December 11, 2003	/D.W./	ZHONG, "Coherent Single Charge Transport in Molecular-Scale Silicon Nanowires," Nano-Lett,	
Nano-Lett, 3(3):343-346 (2003) ZHOU, G., et al., "Growth morphology and micro-structural aspects of Si nanowires synthesized by laser ablation," J. of Crystal Growth, 197, (1999), pp: 129-135 International Preliminary Exam. Report from Int. Apl. No. PCT/US01/48230, filed December 11, 2001 International Preliminary Exam. Report from Int. Apl. No. PCT/US005/020974, filed June 15, 2005 [D.W.] International Search Report from Int. Apl. No. PCT/US01/48230, filed December 11, 2001 [D.W.] International Search Report from Int. Apl. No. PCT/US02/16133, field May 20, 2002 [D.W.] International Search Report from Int. Apl. No. PCT/US03/22061, filed July 16, 2003 [D.W.] International Search Report from Int. Apl. No. PCT/US03/22753, filed July 21, 2003 [D.W.] International Search Report from Int. Apl. No. PCT/US2005/004459, filed February 14, 2005 [D.W.] International Search Report from Int. Apl. No. PCT/US2005/020794, filed July 28, 2005 [D.W.] International Search Report from Int. Apl. No. PCT/US2005/026759, filed July 28, 2005 [D.W.] International Search Report from Int. Apl. No. PCT/US2005/026759, filed July 28, 2005 [D.W.] International Search Report from Int. Apl. No. PCT/US2005/026759, filed July 28, 2005 [D.W.] International Search Report from Int. Apl. No. PCT/US2005/026759, filed July 28, 2005 [D.W.] International Search Report from Int. Apl. No. PCT/US2005/026759, filed July 28, 2005 [D.W.] International Search Report from Int. Apl. No. PCT/US2005/026759, filed July 28, 2005 [D.W.]	/D.W/	ZHONG, "Nanowire Crossbar Arrays as Address Decoders for Integrated Nanosystems," Science,	
ZHOU, G., et al., "Growth morphology and micro-structural aspects of Si nanowires synthesized by laser ablation," J. of Crystal Growth, 197, (1999), pp. 129-135 International Preliminary Exam. Report from Int. Apl. No. PCT/US201/48230, filed December 11, 2001 [D.W.] International Preliminary Exam. Report from Int. Apl. No. PCT/US2005/020974, filed June 15, 2005 [D.W.] International Search Report from Int. Apl. No. PCT/US01/48230, filed December 11, 2001 [D.W.] International Search Report from Int. Apl. No. PCT/US02/16133, filed May 20, 2002 [D.W.] International Search Report from Int. Apl. No. PCT/US03/22061, filed July 16, 2003 [D.W.] International Search Report from Int. Apl. No. PCT/US03/22753, filed July 21, 2003 [D.W.] International Search Report from Int. Apl. No. PCT/US03/205/004459, filed February 14, 2005 [D.W.] International Search Report from Int. Apl. No. PCT/US2005/004459, filed February 14, 2005 [D.W.] International Search Report from Int. Apl. No. PCT/US2005/020974, filed June 15, 2005 [D.W.] International Search Report from Int. Apl. No. PCT/US2005/026759, filed July 28, 2005 [D.W.] International Search Report from Int. Apl. No. PCT/US2005/034345, filed November 21, 2005 [D.W.] International Search Report from Int. Apl. No. PCT/US2005/034345, filed November 21, 2005 [D.W.] International Search Report from Int. Apl. No. PCT/US2005/034345, filed November 21, 2005 [D.W.] Office Action mailed 01/15/2003 in U.S. Patent Application No. 10/196,337, filed July 16, 2002 [D.W.] Office Action mailed 03/14/2005 in U.S. Patent Application No. 10/196,337, filed July 16, 2002 [D.W.] Office Action mailed 03/14/2005 in U.S. Patent Application No. 10/020,004, filed December 11, 2003 [D.W.] Office Action mailed 04/07/2006 in U.S. Patent Application No. 10/734,086, filed December 11, 2003 [D.W.] Office Action mailed 04/07/2006 in U.S. Patent Application No. 10/734,086, filed December 11, 2003	/D.W.		
International Preliminary Exam. Report from Int. Apl. No. PCT/US01/48230, filed December 11, 2001	/D.W./	ZHOU, G., et al., "Growth morphology and micro-structural aspects of Si nanowires synthesized by	
D.W. International Preliminary Exam. Report from Int. Apl. No. PCT/US2005/020974, filed June 15, 2005 D.W. International Search Report from Int. Apl. No. PCT/US01/48230, filed December 11, 2001 D.W. International Search Report from Int. Apl. No. PCT/US02/16133, filed May 20, 2002 D.W. International Search Report from Int. Apl. No. PCT/US03/22061, filed July 16, 2003 D.W. International Search Report from Int. Apl. No. PCT/US03/22753, filed July 21, 2003 D.W. International Search Report from Int. Apl. No. PCT/US2005/004459, filed February 14, 2005 D.W. International Search Report from Int. Apl. No. PCT/US2005/020974, filed June 15, 2005 D.W. International Search Report from Int. Apl. No. PCT/US2005/020974, filed July 28, 2005 D.W. International Search Report from Int. Apl. No. PCT/US2005/026759, filed July 28, 2005 D.W. International Search Report from Int. Apl. No. PCT/US2005/034345, filed November 21, 2005 D.W. International Search Report from Int. Apl. No. PCT/US2005/034345, filed December 6, 2005 D.W. Office Action mailed 01/03/2005 in U.S. Patent Application No. 10/196,337, filed July 16, 2002 Office Action mailed 01/15/2003 in U.S. Patent Application No. 10/196,337, filed July 16, 2002 Office Action mailed 03/11/2005 in U.S. Patent Application No. 10/196,337, filed July 16, 2002 Office Action mailed 03/14/2005 in U.S. Patent Application No. 10/020,004, filed December 11, 2001 Office Action mailed 04/07/2006 in U.S. Patent Application No. 10/034,086, filed December 11, 2001 Office Action mailed 04/07/2006 in U.S. Patent Application No. 10/034,086, filed December 11, 2001 Office Action mailed 04/07/2006 in U.S. Patent Application No. 10/034,086, filed December 11, 2001 Office Action mailed 04/07/2006 in U.S. Patent Application No. 10/034,086, filed December 11, 2001 Office Action mailed 04/07/2006 in U.S. Patent Application No. 10/034,086, filed December 17, 2006 Office Action mailed 04/07/2007 in ILS Patent Application No. 10/034,086, filed D			
International Search Report from Int. Apl. No. PCT/US01/48230, filed December 11, 2001 International Search Report from Int. Apl. No. PCT/US02/16133, field May 20, 2002 International Search Report from Int. Apl. No. PCT/US03/22061, filed July 16, 2003 International Search Report from Int. Apl. No. PCT/US03/22753, filed July 21, 2003 International Search Report from Int. Apl. No. PCT/US03/22753, filed July 21, 2003 International Search Report from Int. Apl. No. PCT/US2005/004459, filed February 14, 2005 International Search Report from Int. Apl. No. PCT/US2005/020974, filed June 15, 2005 International Search Report from Int. Apl. No. PCT/US2005/026759, filed July 28, 2005 International Search Report from Int. Apl. No. PCT/US2005/034345, filed November 21, 2005 Invitation to Pay Addition Fees from Int. Apl. No. PCT/US2005/034345, filed December 6, 2005 Invitation to Pay Addition Fees from Int. Apl. No. PCT/US2005/034345, filed December 6, 2005 Invitation to Pay Addition Fees from Int. Apl. No. PCT/US2005/034345, filed July 16, 2002 Office Action mailed 01/03/2005 in U.S. Patent Application No. 10/196,337, filed July 16, 2002 Office Action mailed 02/23/2006 in U.S. Patent Application No. 10/196,337, filed July 16, 2002 Office Action mailed 03/11/2005 in U.S. Patent Application No. 10/196,337, filed August 22, 2001 Office Action mailed 03/11/2005 in U.S. Patent Application No. 10/020,004, filed December 11, 2001 Office Action mailed 04/07/2006 in U.S. Patent Application No. 10/034,086, filed December 11, 2001 Office Action mailed 04/07/2006 in U.S. Patent Application No. 10/734,086, filed December 11, 2003 Office Action mailed 04/07/2006 in U.S. Patent Application No. 10/734,086, filed October 17, 2006 Office Action mailed 04/07/2006 in U.S. Patent Application No. 10/734,086, filed October 17, 2006 Office Action mailed 04/07/2006 in U.S. Patent Application No. 10/734,086, filed October 17, 2006 Office Action mailed 04/07/2006 in U.S. Patent Application No. 10/054,086, fi	***************************************		200000000000000000000000000000000000000
International Search Report from Int. Apl. No. PCT/US01/48230, filed December 11, 2001 / D W / International Search Report from Int. Apl. No. PCT/US02/16133, field May 20, 2002 / D W / International Search Report from Int. Apl. No. PCT/US03/22061, filed July 16, 2003 / D.W./ International Search Report from Int. Apl. No. PCT/US03/22753, filed July 21, 2003 / D W / International Search Report from Int. Apl. No. PCT/US005/004459, filed February 14, 2005 / D W / International Search Report from Int. Apl. No. PCT/US2005/004459, filed June 15, 2005 / D W / International Search Report from Int. Apl. No. PCT/US2005/020974, filed June 15, 2005 / D W / International Search Report from Int. Apl. No. PCT/US2005/026759, filed July 28, 2005 / D W / International Search Report from Int. Apl. No. PCT/US2005/034345, filed November 21, 2005 / D W / Invitation to Pay Addition Fees from Int. Apl. No. PCT/US2005/044212, filed December 6, 2005 / D W / Office Action mailed 01/03/2005 in U.S. Patent Application No. 10/196,337, filed July 16, 2002 / D W / Office Action mailed 02/23/2006 in U.S. Patent Application No. 10/196,337, filed July 16, 2002 / D W / Office Action mailed 03/11/2005 in U.S. Patent Application No. 10/196,337, filed August 22, 2001 / D W / Office Action mailed 03/14/2005 in U.S. Patent Application No. 10/020,004, filed December 11, 2001 / D W / Office Action mailed 04/07/2006 in U.S. Patent Application No. 10/734,086, filed December 11, 2001 / D W / Office Action mailed 04/07/2006 in U.S. Patent Application No. 10/734,086, filed December 11, 2003	/D.W./	International Preliminary Exam. Report from Int. Apl. No. PCT/US2005/020974, filed June 15, 2005	
International Search Report from Int. Apl. No. PCT/US03/22061, filed July 16, 2003 /D.W./ International Search Report from Int. Apl. No. PCT/US03/22753, filed July 21, 2003 /D.W./ International Search Report from Int. Apl. No. PCT/US2005/004459, filed February 14, 2005 /D.W./ International Search Report from Int. Apl. No. PCT/US2005/020974, filed June 15, 2005 /D.W./ International Search Report from Int. Apl. No. PCT/US2005/026759, filed July 28, 2005 /D.W./ International Search Report from Int. Apl. No. PCT/US2005/034345, filed November 21, 2005 /D.W./ Invitation to Pay Addition Fees from Int. Apl. No. PCT/US2005/044212, filed December 6, 2005 /D.W./ Office Action mailed 01/03/2005 in U.S. Patent Application No. 10/196,337, filed July 16, 2002 Office Action mailed 02/23/2006 in U.S. Patent Application No. 10/196,337, filed July 16, 2002 /D.W./ Office Action mailed 03/11/2005 in U.S. Patent Application No. 10/196,337, filed August 22, 2001 Office Action mailed 03/11/2005 in U.S. Patent Application No. 10/020,004, filed December 11, 2001 Office Action mailed 04/07/2006 in U.S. Patent Application No. 10/734,086, filed December 11, 2003 Office Action mailed 04/07/2006 in U.S. Patent Application No. 10/734,086, filed December 11, 2003		International Search Report from Int. Apl. No. PCT/US01/48230, filed December 11, 2001	
International Search Report from Int. Apl. No. PCT/US03/22061, filed July 16, 2003 /D.W./ International Search Report from Int. Apl. No. PCT/US03/22753, filed July 21, 2003 /D.W./ International Search Report from Int. Apl. No. PCT/US2005/004459, filed February 14, 2005 /D.W./ International Search Report from Int. Apl. No. PCT/US2005/020974, filed June 15, 2005 /D.W./ International Search Report from Int. Apl. No. PCT/US2005/026759, filed July 28, 2005 /D.W./ International Search Report from Int. Apl. No. PCT/US2005/034345, filed November 21, 2005 /D.W./ Invitation to Pay Addition Fees from Int. Apl. No. PCT/US2005/044212, filed December 6, 2005 /D.W./ Office Action mailed 01/03/2005 in U.S. Patent Application No. 10/196,337, filed July 16, 2002 Office Action mailed 02/23/2006 in U.S. Patent Application No. 10/196,337, filed July 16, 2002 /D.W./ Office Action mailed 03/11/2005 in U.S. Patent Application No. 10/196,337, filed August 22, 2001 Office Action mailed 03/14/2005 in U.S. Patent Application No. 10/020,004, filed December 11, 2001 Office Action mailed 04/07/2006 in U.S. Patent Application No. 10/734,086, filed December 11, 2003 Office Action mailed 04/07/2006 in U.S. Patent Application No. 10/734,086, filed December 11, 2003 Office Action mailed 04/07/2006 in U.S. Patent Application No. 10/734,086, filed December 11, 2003	/D W /	International Search Report from Int. Apl. No. PCT/US02/16133, field May 20, 2002	
International Search Report from Int. Apl. No. PCT/US203/22753, filed July 21, 2003			
International Search Report from Int. Apl. No. PCT/US2005/004459, filed February 14, 2005	/D.W./		
International Search Report from Int. Apl. No. PCT/US2005/020974, filed June 15, 2005	/D W /	International Search Report from Int. Apl. No. PCT/US2005/004459, filed February 14, 2005	
International Search Report from Int. Apl. No. PCT/US2005/034345, filed November 21, 2005		International Search Report from Int. Apl. No. PCT/US2005/020974, filed June 15, 2005	
International Search Report from Int. Apl. No. PCT/US2005/034345, filed November 21, 2005		International Search Report from Int. Apl. No. PCT/US2005/026759, filed July 28, 2005	
Office Action mailed 01/03/2005 in U.S. Patent Application No. 10/196,337, filed July 16, 2002			
Office Action mailed 01/03/2005 in U.S. Patent Application No. 10/196,337, filed July 16, 2002	/D W /	Invitation to Pay Addition Fees from Int. Apl. No. PCT/US2005/044212, filed December 6, 2005	
Office Action mailed 01/15/2003 in U.S. Patent Application No. 10/020,004, filed 12/11/2001			
Office Action mailed 03/11/2005 in U.S. Patent Application No. 09/935,776, filed August 22, 2001 Office Action mailed 03/14/2005 in U.S. Patent Application No. 10/020,004, filed December 11, 2001 Office Action mailed 04/07/2006 in U.S. Patent Application No. 10/734,086, filed December 11, 2003 Office Action mailed 04/23/2007 in U.S. Patent Application No. 11/582 167, filed October 17, 2006		Office Action mailed 01/15/2003 in U.S. Patent Application No. 10/020,004, filed 12/11/2001	
Office Action mailed 03/11/2005 in U.S. Patent Application No. 09/935,776, filed August 22, 2001 Office Action mailed 03/14/2005 in U.S. Patent Application No. 10/020,004, filed December 11, 2001 Office Action mailed 04/07/2006 in U.S. Patent Application No. 10/734,086, filed December 11, 2003 Office Action mailed 04/23/2007 in U.S. Patent Application No. 11/582 167, filed October 17, 2006	/D.W./	Office Action mailed 02/23/2006 in U.S. Patent Application No. 10/196,337, filed July 16, 2002	
/D.W./ Office Action mailed 03/14/2005 in U.S. Patent Application No. 10/020,004, filed December 11, 2001 Office Action mailed 04/07/2006 in U.S. Patent Application No. 10/734,086, filed December 11, 2003 Office Action mailed 04/23/2007 in U.S. Patent Application No. 11/582 167, filed October 17, 2006			
/D.W./ 2003 Office Action mailed 04/23/2007 in U.S. Patent Application No. 11/582 167, filed October 17, 2006		Office Action mailed 03/14/2005 in U.S. Patent Application No. 10/020,004, filed December 11,	
Office Action mailed 04/23/2007 in U.S. Patent Application No. 11/582,167, filed October 17, 2006	/D.W./		
	(F) 14/ (Office Action mailed 04/23/2007 in U.S. Patent Application No. 11/582,167, filed October 17, 2006	

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OTHER ART — NON PATENT LITERATURE DOCUMENTS

Office Action mailed 05/16/2006 in U.S. Patent Application No. 09/935,776, filed August 22, 2001	
Office Action mailed 05/25/2005 in U.S. Patent Application No. 10/196,337, filed July 16, 2002	
Office Action mailed 06/25/2004 in U.S. Patent Application No. 10/020,004, filed 12/11/2001	
Office Action mailed 06/30/2004 in U.S. Patent Application No. 10/196,337, filed 07/16/2002	
Office Action mailed 08/30/2005 in U.S. Patent Application No. 09/935,776, filed August 22, 2001	
Office Action mailed 08/30/2005 in U.S. Patent Application No. 10/020,004, filed December 11, 2001	
Office Action mailed 09/02/2003 in U.S. Patent Application No. 09/935,776, filed August 22, 2001	
Office Action mailed 09/15/2004 in U.S. Patent Application No. 09/935,776, filed August 22, 2001	
Office Action mailed 10/27/2006 in U.S. Patent Application No. 10/734,086, filed December 11, 2003	
Office Action mailed 11/02/2006 in U.S. Patent Application No. 10/196,337, filed July 16, 2002	
Office Action mailed 11/29/2005 in U.S. Patent Application No. 10/995,075, filed November 22, 2004	
Office Action mailed 12/20/2006 in U.S. Patent Application No. 11/012,549, filed December 15, 2004	
Written Opinion from Int. Apl. No. PCT/US01/48230, filed December 11, 2001	
Written Opinion from Int. Apl. No. PCT/US2005/004459, filed February 14, 2005	
Written Opinion from Int. Apl. No. PCT/US2005/020974, filed June 15, 2005	
Written Opinion from Int. Apl. No. PCT/US2005/026759, filed July 28, 2005	
Written Opinion from Int. Apl. No. PCT/US2005/034345, filed November 21, 2005	
	Office Action mailed 05/25/2005 in U.S. Patent Application No. 10/196,337, filed July 16, 2002 Office Action mailed 06/25/2004 in U.S. Patent Application No. 10/020,004, filed 12/11/2001 Office Action mailed 06/30/2004 in U.S. Patent Application No. 10/196,337, filed 07/16/2002 Office Action mailed 08/30/2005 in U.S. Patent Application No. 09/935,776, filed August 22, 2001 Office Action mailed 08/30/2005 in U.S. Patent Application No. 10/020,004, filed December 11, 2001 Office Action mailed 09/02/2003 in U.S. Patent Application No. 09/935,776, filed August 22, 2001 Office Action mailed 09/15/2004 in U.S. Patent Application No. 09/935,776, filed August 22, 2001 Office Action mailed 10/27/2006 in U.S. Patent Application No. 10/734,086, filed December 11, 2003 Office Action mailed 11/02/2006 in U.S. Patent Application No. 10/196,337, filed July 16, 2002 Office Action mailed 11/29/2005 in U.S. Patent Application No. 10/196,337, filed November 22, 2004 Office Action mailed 12/20/2006 in U.S. Patent Application No. 10/195,075, filed November 22, 2004 Office Action mailed 12/20/2006 in U.S. Patent Application No. 11/012,549, filed December 15, 2004 Written Opinion from Int. Apl. No. PCT/US01/48230, filed December 11, 2001 Written Opinion from Int. Apl. No. PCT/US2005/020974, filed June 15, 2005 Written Opinion from Int. Apl. No. PCT/US2005/020759, filed July 28, 2005

EXAMINER:	DATE CONSIDERED:
/Daren Wolverton/	. 06/09/2009

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